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1	BRS	L3	1081	((natural\$ same language\$) and search\$ and (database\$ (data adj base\$))	USPAT	2002/02/04 11:51	Truncation Overflow. Return string from Server is: 5'0'0' NAT
2	BRS	L4	481	3 and (categor\$5 or index\$4 or classificat\$4) and attribut\$5	USPAT	2002/02/04 11:52	
3	BRS	L5	304	4 and (stor\$5 same object\$1)	USPAT	2002/02/04 11:54	
4	BRS	L6	114	5 and agent\$	USPAT	2002/02/04 11:56	Truncation Overflow. Return string from Server is: 5'0'0' AGE
5	BRS	L7	21	5 and (agent\$ same categor\$5)	USPAT	2002/02/04 11:56	Truncation Overflow. Return string from Server is: 5'0'0' AGE

09/623, 661

	Document ID	Issue Date	Title	Current OR	Current XRef	Inventor
1	US 6332154 B1	20011218	Method and apparatus for providing media-independent self-help modules within a multimedia communication-center customer interface	709/204	370/352 379/88.04 709/206 709/227	Beck, Christopher Clemmett Macleod, et al.
2	US 6292830 B1	20010918	System for optimizing interaction among agents acting on multiple levels	709/224		Taylor, Matt, et al.
3	US 6263335 B1	20010717	Information extraction system and method using concept-relation-concept (CRC) triples	707/5		Paik, Woojin, et al.
4	US 6253193 B1	20010626	Systems and methods for the secure transaction management and electronic rights protection	705/57	705/52	Ginter, Karl L., et al.
5	US 6237786 B1	20010529	Systems and methods for secure transaction management and electronic rights protection	213/153	380/203 705/51 705/58	Ginter, Karl L., et al.
6	US 6170011 B1	20010102	Method and apparatus for determining and initiating interaction directionality within a multimedia communication center	709/224	379/265.01 705/10 705/8 705/9 709/223	Macleod Beck, Christopher Clemmett, et al.
7	US 6167395 A	20001226	Method and apparatus for creating specialized multimedia threads in a multimedia communication center	707/3		Beck, Christopher Clemmett Macleod, et al.
8	US 6076088 A	20000613	Information extraction system and method using concept relation concept (CRC) triples	707/5		Paik, Woojin, et al.
9	US 6029195 A	20000222	System for customized electronic identification of desirable objects	725/116	707/10 725/93	Herz, Frederick S. M.
10	US 5982891 A	19991109	Systems and methods for secure transaction management and electronic rights protection	705/54	705/26 713/167	Ginter, Karl L., et al.
11	US 5949876 A	19990907	Systems and methods for secure transaction management and electronic rights protection	705/80	705/1 705/39 705/54	Ginter, Karl L., et al.
12	US 5917912 A	19990629	System and methods for secure transaction management and electronic rights protection	713/187	705/40 709/312 713/164	Ginter, Karl L., et al.
13	US 5915019 A	19990622	Systems and methods for secure transaction management and electronic rights protection	705/54	705/26 705/400 713/200	Ginter, Karl L., et al.
14	US 5910987 A	19990608	Systems and methods for secure transaction management and electronic rights protection	705/52	705/30	Ginter, Karl L., et al.
15	US 5895464 A	19990420	Computer program product and a method for using natural language for the description, search and retrieval of multi-media objects	707/3	707/4 707/5	Bhandari, Archana, et al.
16	US 5892900 A	19990406	Systems and methods for secure transaction management and electronic rights protection	713/200	713/201	Ginter, Karl L., et al.
17	US 5835087 A	19981110	System for generation of object profiles for a system for customized electronic identification of desirable objects	345/810	725/14 725/35 725/46	Herz, Frederick S. M., et al.
18	US 5754939 A	19980519	System for generation of user profiles for a system for customized electronic identification of desirable objects	455/3.04	707/501.1 709/219 725/34	Herz, Frederick S. M., et al.
19	US 5754938 A	19980519	Pseudonymous server for system for customized electronic identification of desirable objects	725/116	705/74 707/6 707/9 709/219 713/155 725/1 725/129 725/25	Herz, Frederick S. M., et al.
20	US 5696916 A	19971209	Information storage and retrieval system and display method therefor	345/853		Yamazaki, Naoko, et al.
21	US 4914590 A	19900403	Natural language understanding system	704/8		Loatman, Robert B., et al.


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- 1 Groupware: some issues and experiences 100%
 Clarence A. Ellis , Simon J. Gibbs , Gail Rein
 Communications of the ACM January 1991
 Volume 34 Issue 1


- 2 Presentation 100%
 Proceedings of the 1980 workshop on Data abstraction, databases
 and conceptual modeling June 1980

Presentation is intended to encompass notations and languages for expressing models. This session will focus on the linguistic and notational choices made in particular approaches. Emphasis will be placed on common ideas. For example, there have been some assertions from proponents of the predicate calculus that it is a notation that is capable of expressing essentially all the interesting and important concepts that are encountered in other notations. Emphasis will also be placed on why th ...


- 3 Behaviour 100%

-  **Proceedings of the 1980 workshop on Data abstraction, databases and conceptual modeling June 1980**
In this session on behaviour I would like to raise, at least the following issues: • What is the distinction between data and process? • How are process and data related? • How is behaviour, or system dynamics, modelled and specified? • What is the impact of behavioural specifications on system evolvability? Rick Cattell, Peter Buneman and I will start by commenting on these issues with respect to database, AI, progr ...


4 OfficeTalk-D 100%

-  **Clarence A. Ellis , Marc Bernal**
Proceedings of the SIGOA conference on Office information systems June 1982
WHAT: Herein is described an experimental Office Information System designed and built at the Xerox Palo Alto Research Center to allow multi-computer experiments in distribution and sharing of control within an office environment. WHY: Current office systems go a long way toward aiding the individual user to transact his/her personal office work. Future office information systems need to aid tightly coupled communities of users. Thus, this investigation into communal computing sy ...




5 The family of concurrent logic programming languages 100%

-  **Ehud Shapiro**
ACM Computing Surveys (CSUR) September 1989
Volume 21 Issue 3
Concurrent logic languages are high-level programming languages for parallel and distributed systems that offer a wide range of both known and novel concurrent programming techniques. Being logic programming languages, they preserve many advantages of the abstract logic programming model, including the logical reading of programs and computations, the convenience of representing data structures with logical terms and manipulating them using unification, and the amenability to metaprogrammin ...

6 Conception, evolution, and application of functional programming languages 100%

-  **Paul Hudak**
ACM Computing Surveys (CSUR) September 1989
Volume 21 Issue 3


The foundations of functional programming languages are examined from both historical and technical perspectives. Their evolution is traced through several critical periods: early work on lambda calculus and combinatory calculus, Lisp, Iswim, FP, ML, and modern functional languages such as Miranda¹ and Haskell. The fundamental premises on which the functional programming methodology stands are critically analyzed with respect to philosophical, theoretical, and pragmatic concerns. ...

- 7** A data model for flexible hypertext database systems 100%
 Frank WM. Tompa
ACM Transactions on Information Systems (TOIS) January 1989
Volume 7 Issue 1
Hypertext and other page-oriented databases cannot be schematized in the same manner as record-oriented databases. As a result, most hypertext databases implicitly employ a data model based on a simple, unrestricted graph. This paper presents a hypergraph model for maintaining page-oriented databases in such a way that some of the functionality traditionally provided by database schemes can be available to hypertext databases. In particular, the model formalizes identification of commonalit ...
- 8** High level knowledge sources in usable speech recognition 100%
 systems
S. L. Young , A. G. Hauptmann , W. H. Ward , E. T. Smith , P. Werner
Communications of the ACM February 1989
Volume 32 Issue 2
The authors detail an integrated system which combines natural language processing with speech understanding in the context of a problem solving dialogue. The MINDS system uses a variety of pragmatic knowledge sources to dynamically generate expectations of what a user is likely to say.
- 9** The state of the art in automating usability evaluation of user 100%
 interfaces
Melody Y. Ivory , Marti A. Hearst
ACM Computing Surveys (CSUR) December 2001
Volume 33 Issue 4
Usability evaluation is an increasingly important part of the user interface design process. However, usability evaluation can be expensive in terms of time and human resources, and

automation is therefore a promising way to augment existing approaches. This article presents an extensive survey of usability evaluation methods, organized according to a new taxonomy that emphasizes the role of automation. The survey analyzes existing techniques, identifies which aspects of usability evaluation aut ...

10 Mining e-commerce data

100%


 Ron Kohavi

Proceedings of the seventh conference on Proceedings of the seventh ACM SIGKDD international conference on knowledge discovery and data mining August 2001

Organizations conducting Electronic Commerce (e-commerce) can greatly benefit from the insight that data mining of transactional and clickstream data provides. Such insight helps not only to improve the electronic channel (e.g., a web site), but it is also a learning vehicle for the bigger organization conducting business at brick-and-mortar stores. The e-commerce site serves as an early alert system for emerging patterns and a laboratory for experimentation. For successful data mining, several ...

11 The profile naming service

100%


 Larry L. Peterson

ACM Transactions on Computer Systems (TOCS) November 1988
Volume 6 Issue 4

Profile is a descriptive naming service used to identify users and organizations. This paper presents a structural overview of Profile's three major components: a confederation of attribute-based name servers, a name space abstraction that unifies the name servers, and a user interface that integrates the name space with existing naming systems. Each name server is an independent authority that allows clients to describe users and organizations with a multi ...

12 Computing in higher education: the Athena experience

100%


 Edward Balkovich , Steven Lerman , Richard P. Parmelee

Communications of the ACM November 1985
Volume 28 Issue 11

Project Athena at MIT is an experiment to explore the potential uses of advanced computer technology in the university curriculum. About 60 different educational development projects, spanning virtually all of MIT's academic departments,

are already in progress.


13 A prototype electronic encyclopedia 100%

 Stephen A. Weyer , Alan H. Borning
ACM Transactions on Information Systems (TOIS) January 1985
Volume 3 Issue 1


We describe a prototype electronic encyclopedia implemented on a powerful personal computer, in which user interface, media presentation, and knowledge representation techniques are applied to improving access to a knowledge resource. In itself, an electronic encyclopedia is an important information resource, but this work also illustrates the issues and approaches for many types of electronic information retrieval environments. In the prototype we make dynamic use of the structure and sema

...

14 Computing curricula 2001 100%

 Journal of Educational Resources in Computing (JERIC) September 2001

15 Probabilistic temporal databases, I 100%

 Alex Dekhtyar , Robert Ross , V. S. Subrahmanian
ACM Transactions on Database Systems (TODS) March 2001
Volume 26 Issue 1

Dyreson and Snodgrass have drawn attention to the fact that, in many temporal database applications, there is often uncertainty about the start time of events, the end time of events, and the duration of events. When the granularity of time is small (e.g., milliseconds), a statement such as "Packet p was shipped sometime during the first 5 days of January, 1998" leads to a massive amount of uncertainty ($5 \times 24 \times 60 \times 60 \times 1000$) possibilities. A ...

16 BEAT 100%

 Justine Cassell , Hannes Högni Vilhjálmsón , Timothy Bickmore
Proceedings of the 2001 conference on Computer Graphics August 2001

The Behavior Expression Animation Toolkit (BEAT) allows animators to input typed text that they wish to be spoken by an animated human figure, and to obtain as output appropriate and synchronized nonverbal behaviors and synthesized speech in a form that can be sent to a number of different animation systems. The nonverbal behaviors are assigned on the basis of

actual linguistic and contextual analysis of the typed text, relying on rules derived from extensive research into human conversatio ...

17 Personalized spiders for web search and analysis 100%



Michael Chau , Daniel Zeng , Hinchun Chen

Proceedings of the first ACM/IEEE-CS joint conference on Digital libraries

Searching for useful information on the World Wide Web has become increasingly difficult. While Internet search engines have been helping people to search on the web, low recall rate and outdated indexes have become more and more problematic as the web grows. In addition, search tools usually present to the user only a list of search results, failing to provide further personalized analysis which could help users identify useful information and comprehend these results. To alleviate these ...

18 Conference review: Semantic Web Workshop: 100%



Panos Constantopoulos , Vassilis Christophides , Dimitris Plexousakis
intelligence June 2001

Volume 12 Issue 2

19 A general, yet useful theory of information systems 100%



Steven Alter

Communications of the AIS March 1999

20 Annotea 100%



José Kahan , Marja-Ritta Koivunen

The tenth international World Wide Web conference on World Wide Web April 2001

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21 Extracting usability information from user interface events 100%



David M. Hilbert , David F. Redmiles

ACM Computing Surveys (CSUR) December 2000

Volume 32 Issue 4

Modern window-based user interface systems generate user interface events as natural products of their normal operation. Because such events can be automatically captured and because they indicate user behavior with respect to an application's user interface, they have long been regarded as a potentially fruitful source of information regarding application usage and usability. However, because user interface events are typically voluminous and rich in detail, automated support is generally ...

22 Process migration 100%




Dejan S. Milošević , Fred Douglass , Yves Paindaveine , Richard Wheeler , Songnian Zhou

ACM Computing Surveys (CSUR) September 2000

Volume 32 Issue 3

Process migration is the act of transferring a process between two machines. It enables dynamic load distribution, fault resilience, eased system administration, and data access locality. Despite these goals and ongoing research efforts, migration has not achieved widespread use. With the increasing deployment of distributed systems in general, and distributed operating systems in particular, process migration is again receiving more attention in both research and product development. As hi ...

23 The Satchel system architecture 100%


 Mike Flynn , David Pendlebury , Chris Jones , Marge Eldridge , Mik Lamming
Mobile Networks and Applications December 2000
Volume 5 Issue 4

Mobile professionals require access to documents and document‐related services, such as printing, wherever they may be. They may also wish to give documents to colleagues electronically, as easily as with paper, face‐to‐face, and with similar security characteristics. The Satchel system provides such capabilities in the form of a mobile browser, implemented on a device that professional people would be likely to carry anyway, such as a pager or mobile phone. Printing may be per ...

24 SCMP.com 100%






 Ali Farhoomand , Eva Kwan
Proceedings of the twenty first international conference on Information systems December 2000

25 Information retrieval on the web 100%





 Mei Kobayashi , Koichi Takeda
ACM Computing Surveys (CSUR) June 2000
Volume 32 Issue 2

In this paper we review studies of the growth of the Internet and technologies that are useful for information search and retrieval on the Web. We present data on the Internet from several different sources, e.g., current as well as projected

number of users, hosts, and Web sites. Although numerical figures vary, overall trends cited by the sources are consistent and point to exponential growth in the past and in the coming decade. Hence it is not surprising that about 85% of Internet user ...

- 26** Pilot 100%
 David D. Redell , Yogen K. Dalal , Thomas R. Horsley , Hugh C. Lauer , William C. Lynch , Paul R. McJones , Hal G. Murray , Stephen C. Purcell
 Communications of the ACM February 1980
 Volume 23 Issue 2
- 27** Relating sentences and semantic networks with procedural logic 100%
 Robert F. Simmons , Daniel Chester
 Communications of the ACM August 1982
 Volume 25 Issue 8
- 28** Beneath the surface of organizational processes 100%
 Gary Katzenstein , F. Javier Lerch
 ACM Transactions on Information Systems (TOIS) October 2000
 Volume 18 Issue 4
 This paper raises the question, "What is an effective representation framework for organizational process design?" By combining our knowledge of existing process models with data from a field study, the paper develops criteria for an effective process representation. Using these criteria and the case study, the paper integrates the process redesign and information system literatures to develop a representation framework that captures a process' social context. The paper argues t ...
- 29** Program Transformation Systems 100%
 H. Partsch , R. Steinbrüggen
 ACM Computing Surveys (CSUR) September 1983
 Volume 15 Issue 3
- 30** Formal Models for Computer Security 100%
 Carl E. Landwehr
 ACM Computing Surveys (CSUR) September 1981
 Volume 13 Issue 3

- 31** Social Analyses of Computing: Theoretical Perspectives in Recent Empirical Research 100%
Rob Kling
ACM Computing Surveys (CSUR) January 1980
Volume 12 Issue 1
- 32** Regulating service access and information release on the Web 100%
Piero Bonatti , Pierangela Samarati
Proceedings of the 7th ACM conference on Computer and communications security November 2000
- 33** Chimera 100%
Kenneth M. Anderson , Richard N. Taylor , E. James Whitehead
ACM Transactions on Information Systems (TOIS) July 2000
Volume 18 Issue 3
Emerging software development environments are characterized by heterogeneity: they are composed of diverse object stores, user interfaces, and tools. This paper presents an approach for providing hypermedia services in this heterogeneous setting. Central notions of the approach include the following: anchors are established with respect to interactive views of objects, rather than the objects themselves; composable, n-ary links can be established between a ...
- 34** Safety checking of machine code 100%
Zhichen Xu , Barton P. Miller , Thomas Reps
ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN '00 conference on Programming language design and implementation May 2000
Volume 35 Issue 5
We show how to determine statically whether it is safe for untrusted machine code to be loaded into a trusted host system. Our safety-checking technique operates directly on the untrusted machine-code program, requiring only that the initial inputs to the untrusted program be annotated with typestate information and linear constraints. This approach opens up the possibility of being able to certify code produced by any compiler from any source language, which gives the code prod ...
- 35** High performance data mining (tutorial PM-3) 100%

-  Vipin Kumar , Mohammed Zaki
Proceedings of the sixth international conference on Knowledge discovery and data mining (tutorial sessions) August 2000
- 36** Architectures to make simple visualisations using simple systems 100%
 Alan Dix , Russell Beale , Andy Wood
Proceedings of the Working Conference on Advanced Visual Interfaces May 2000
In previous work, the first author argued for simple lightweight visualisations. These are surprisingly complex to produce due to the need for infrastructure to read files, etc. onCue, a desktop 'agent', aids the rapid production of such visualisations and their integration with desktop and Internet applications. Two examples are used dancing histograms for 2D tables and pieTrees for hierarchical numeric data. A major focus is the importance of architecture, both that of onCue itself and th ...
- 37** Tools and approaches for developing data-intensive Web applications 100%
 Piero Fraternali
ACM Computing Surveys (CSUR) September 1999
Volume 31 Issue 3
The exponential growth and capillar diffusion of the Web are nurturing a novel generation of applications, characterized by a direct business-to-customer relationship. The development of such applications is a hybrid between traditional IS development and Hypermedia authoring, and challenges the existing tools and approaches for software production. This paper investigates the current situation of Web development tools, both in the commercial and research fields, by identifying and characte ...
- 38** Augmenting recommender systems by embedding interfaces into practices 100%
 Antonietta Grasso , Michael Koch , Alessandro Rancati
Proceedings of the international ACM SIGGROUP conference on Supporting group work November 1999
Automated collaborative filtering systems promote the creation of a meta-layer of information, which describes users' evaluations of the quality and relevance of information items like scientific papers, books, and movies. A rich meta-layer is required, in order to elaborate statistically good predictions of

the interest of the information items; the number of users' contributing to the feedback is a vital aspect for these systems to produce good prediction quality. The work presented here, ...

39 The architecture of static hypertexts

100%



Tim Oren

Proceeding of the ACM conference on Hypertext November 1987

This paper's purpose is to describe how the hypertext technique can make CD-ROM (and other static storage media) a more comfortable environment for human use. I begin by considering implementation issues for hypertext on CD-ROM and surveying currently available products. I suggest desirable goals for the use of hypertext on the static CD medium, and propose that their achievement will follow from a correct choice of conventions of use and construction of the hypertext database. Such ...

40 Incremental formalization with the hyper-object substrate

100%



Frank M. Shipman , Raymond J. McCall

ACM Transactions on Information Systems (TOIS) April 1999
Volume 17 Issue 2

Computers require formally represented information to perform computations that support users; yet users who have needed such support have often proved to be unable or unwilling to formalize it. To address this problem, this article introduces an approach called incremental formalization, in which, first, users express information informally and then the system aids them in formalizing it. Incremental formalization requires a system architecture the (1) integrates formal and informal repres ...

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|---|---|------|
| 41 | Object-based visual programming languages | 100% |
|  | Sergiu S. Simmel
ACM SIGPLAN OOPS Messenger , Addendum to the proceedings on
Object-oriented programming systems, languages, and applications
(Addendum) September 1991
Volume 3 Issue 4 | |
| 42 | Direct manipulation vs. interface agents | 100% |
|  | Ben Shneiderman , Pattie Maes
interactions November 1997
Volume 4 Issue 6 | |
| 43 | A multilevel approach to intelligent information filtering | 100% |
|  | J. Mostafa , S. Mukhopadhyay , M. Palakal , W. Lam
ACM Transactions on Information Systems (TOIS) October 1997
Volume 15 Issue 4
In information-filtering environments, uncertainties associated
with changing interests of the user and the dynamic document | |

stream must be handled efficiently. In this article, a filtering model is proposed that decomposes the overall task into subsystem functionalities and highlights the need for multiple adaptation techniques to cope with uncertainties. A filtering system, SIFTER, has been implemented based on the model, using established techniques in information retrieval and artificia ...

44 Building task-specific interfaces to high volume conversational data 100%



Loren G. Terveen , William C. Hill , Brian Amento , David McDonald , Josh Creter
conference proceedings on Human factors in computing systems
March 1997

45 Assessing process-centered software engineering environments 100%



Vincenzo Ambriola , Reidar Conradi , Alfonso Fuggetta
ACM Transactions on Software Engineering and Methodology
(TOSEM) July 1997
Volume 6 Issue 3

Process-centered software engineering environments (PSEEs) are the most recent generation of environments supporting software development activities. They exploit an representation of the process (called the process model that specifies how to carry out software development activities, the roles and tasks of software developers, and how to use and control software development tools. A process model is therefore a vehicle to better understand and communicate the process. If ...

46 The World-Wide Web 100%



Oren Etzioni
Communications of the ACM November 1996
Volume 39 Issue 11

47 FOCUS 100%



Michael Spenke , Christian Beilken , Thomas Berlage
Proceedings of the ACM symposium on User interface software and technology November 1996

48 Semantic-based visualization for parallel object-oriented programming 100%



Isabelle Attali , Denis Caromel , Sidi O. Ehmety , Sylvain Lippi

ACM SIGPLAN Notices , Proceedings of the eleventh annual conference on Object-oriented programming systems, languages, and applications October 1996
Volume 31 Issue 10

49 Natural-language retrieval of images based on descriptive captions 100%



Eugene J. Guglielmo , Neil C. Rowe

ACM Transactions on Information Systems (TOIS) July 1996

Volume 14 Issue 3

We describe a prototype intelligent information retrieval system that uses natural-language understanding to efficiently locate captioned data. Multimedia data generally require captions to explain their features and significance. Such descriptive captions often rely on long nominal compounds (strings of consecutive nouns) which create problems of disambiguating word sense. In our system, captions and user queries are parsed and interpreted to produce a logical form using a detailed theory ...

50 Personalized information structures II 100%



Scott R. Tilley , Walter M. Lamia

Proceedings of the 13th annual conference on Emerging from chaos : solutions for the growing complexity of our jobs February 1996

51 Electronic markets and electronic hierarchies 100%



Thomas W. Malone , Joanne Yates , Robert I. Benjamin

Communications of the ACM June 1987

Volume 30 Issue 6

By reducing the costs of coordination, information technology will lead to an overall shift toward proportionately more use of markets—rather than hierarchies—to coordinate economic activity.

52 Motion recovery for video content classification 100%



Nevenka Dimitrova , Forouzan Golshani

ACM Transactions on Information Systems (TOIS) October 1995

Volume 13 Issue 4

Like other types of digital information, video sequences must be classified based on the semantics of their contents. A more-precise and completer extraction of semantic information will result in a more-effective classification. The most-discernible difference between still images and moving

pictures stems from movements and variations. Thus, to go from the realm of still-image repositories to video databases, we must be able to deal with motion. Particularly, we need the ability to classi ...

53 Knowledge-based document retrieval in office environments 100%



Augusto Celentano , Maria Grazia Fugini , Silvano Pozzi
ACM Transactions on Information Systems (TOIS) July 1995
Volume 13 Issue 3

In the office environment, the retrieval of documents is performed using the concepts contained in the documents, information about the procedural context where the documents are used, and information about the regulations and laws that discipline the life of documents within a given application domain. To fulfill the requirements of such a sophisticated retrieval, we propose a document retrieval model and system based on the representation of knowledge describing the semantic contents of d ...

54 HyperActive: extending an open hypermedia architecture to support agency 100%



J. Alfredo Sánchez , John J. Leggett , John L. Schnase
ACM Transactions on Computer-Human Interaction (TOCHI)
December 1994
Volume 1 Issue 4

Agency and hypermedia have both been suggested as powerful means to cope with future information management and human-computer interaction requirements. However, research projects have included interface agents only marginally in the context of hypermedia systems. This article proposes a set of criteria for characterizing interface agents and offers a perspective view of ongoing research in the field using those criteria as a framework. The need to provide a supporting infrastructure that f ...

55 Using aggregation and dynamic queries for exploring large data sets 100%



Jade Goldstein , Steven F. Roth
Conference proceedings on Human factors in computing systems :
“celebrating interdependence”; April 1994

56 Using semantic values to facilitate interoperability among 100%

**heterogeneous information systems**

Edward Sciore , Michael Siegel , Arnon Rosenthal

ACM Transactions on Database Systems (TODS) June 1994

Volume 19 Issue 2

Large organizations need to exchange information among many separately developed systems. In order for this exchange to be useful, the individual systems must agree on the meaning of their exchanged data. That is, the organization must ensure semantic interoperability. This paper provides a theory of semantic values as a unit of exchange that facilitates semantic interoperability between heterogeneous information systems. We show how semantic values can ei ...

57 DOCASE

100%



Max Mühlhäuser , Wolfgang Gerteis , Lutz Heuser

Communications of the ACM September 1993

Volume 36 Issue 9

58 Noncommand user interfaces

100%



Jakob Nielsen

Communications of the ACM April 1993

Volume 36 Issue 4

59 The envoy framework

100%



Murugappan Palaniappan , Nicole Yankelovich , George Fitzmaurice , Anne Loomis , Bernard Haan , James Coombs , Norman Meyrowitz

ACM Transactions on Information Systems (TOIS) July 1992

Volume 10 Issue 3

The Envoy Framework addresses a need for computer-based assistants or agents that operate in conjunction with users' existing applications, helping them perform tedious, repetitive, or time-consuming tasks more easily and efficiently. Envoys carry out missions for users by invoking envoy-aware applications called operatives and inform users of mission results via envoy-aware applications called informers. The distributed, open architecture developed for Envoys is derived from an analysis of ...

60 A high-level and flexible framework for implementing multiuser user interfaces 100%

Prasun Dewan , Rajiv Choudhary

ACM Transactions on Information Systems (TOIS) October 1992

Volume 10 Issue 4

We have developed a high-level and flexible framework for supporting the construction of multiuser interfaces. The framework is based on a generalized editing interaction model, which allows users to view programs as active data that can be concurrently edited by multiple users. It consists of several novel components including a refinement of both the Seeheim UIMS architecture and the distributed graphics architecture that explicitly addresses multiuser interaction; the abstractions of sha ...

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